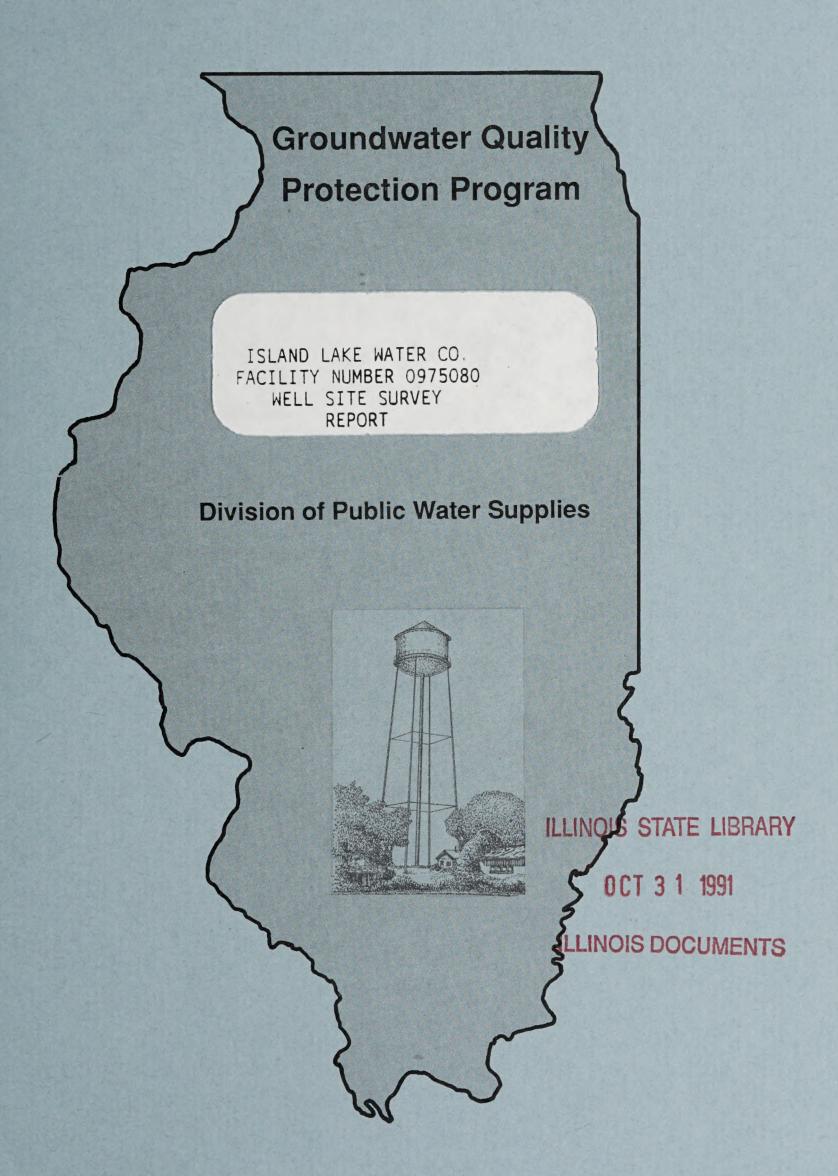
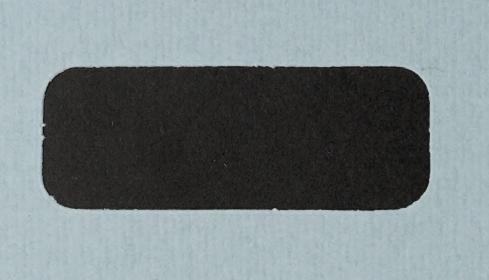
Division of Public Water Supplies 2200 Churchill Road Springfield, Illinois 62706





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GROUNDWATER QUALITY PROTECTION PROGRAM:

ISLAND LAKE WATER CO.
FACILITY NUMBER 0975080
WELL SITE SURVEY
REPORT

Prepared by:

Division of Public Water Supplies

Published by:

Illinois Environmental Protection Agency
Springfield, Illinois

September, 1991





I553,79 ISLA 2

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INTRODUCTION

This report has been prepared by the Agency pursuant to Section 17.1 of the Illinois Environmental Protection Act. The report summarizes information about your facility and samples collected and analyzed from your well(s). The well site survey provides an inventory of the area around the well(s) to help increase your awareness of potential hazards to groundwater utilized by your facility. This information and technical data will assist you in developing and implementing local groundwater protection measures authorized by the Act.

FACILITY DESCRIPTION AND GEOLOGIC PROFILE OF WELL SITES

Island Lake Water Co. obtains its water from three drift wells. A fourth well, finished in bedrock, was drilled but is not used due to a high hydrogen sulfide content. The wells provide an average of 255,000 gallons per day to 750 services. See Table I for a description of each well. The surficial geologic susceptibility rating for all four wells is A2. The aquifer is overlain by sand and gravel sediments with moderate to high permeability Permeability is a measure of the ability of a soil or sediment to transmit fluids. A detailed description and geologic profile is found in the Facility Wells Report (Appendix).

	Minimum Maximum						Well Well	
	(ft.)	Setback (ft.)	Status	(MGD)	Capacity (gpm/ft.) Treatmo	ent Aquifer	Depth (ft.)	Logs Available
Well #1								
(20280)	400	No	Α	280 0.403		l., Sand and grave		Yes
Well #2	10 all 90							
(20281)	400	No	Α	200		l., Sand and grave		Yes
Well #3								
(20282)		No	А	65 0.095		l Sand and grave		Yes
Well #4								
(00544)		No	I		none	Deep bedrock	1233	3 Yes

nistle bevroces noisenimennos to engruou nis esserve elte in

A - Active

I - Inactive

GROUNDWATER SAMPLING AND MONITORING HISTORY

Island Lake Water Co. Wells #2 and #3 were sampled on July 16, 1985 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for inorganic chemicals (IOC) and volatile organic/aromatic compounds (VOC/VOA). In addition, Well #3 was sampled for synthetic organic pesticides (SOC).

VOC/VOA analyses did not detect quantifiable levels of any organic compounds. SOC analyses did not detect any pesticides/herbicides. IOC analyses indicate that parameters are consistant with other sand and gravel aquifers in Illinois (Appendix C).

WELL SITE SURVEY METHODS AND PROCEDURES

The detailed well site survey consists of an aerial photographic map and inventory sheets (Appendix B), that relate information about potential sources, routes, and possible problem sites to your water supply wells. The location of potential sources, routes, possible problem sites, water wells minimum setback zones and the 1,000 foot survey area are all displayed on the aerial photographic map.

The first page of each survey consists of a summary description and geologic profile for each well. The second and following pages of the survey inventory units within and bordering a 1,000 foot radius of the wellhead. A unit is defined as any device, mechanism, equipment, or area (exclusive of land utilized only for agricultural production). The Agency 5-digit well number is associated with a unit or map code, and then classified. The classification codes relate to definitions of potential contamination sources and routes as defined in the Illinois Groundwater Protection Act (see Groundwater Primer pages 18-19). The distance and direction of the unit from the wellhead is also indicated.

Survey Results and Findings

The Island Lake well site survey was conducted on October 30, 1989 by Fred Martinez from the Agency's Elgin Regional Office. The following describes the results and findings for the Island Lake Water Co. public water wells.

Island Lake Well #1 (IEPA #20280

The survey area is urban. The area is a mixture of residential and commercial. There are five possible problem sites within 1,500 feet of well #1. They are Sharp Auto Body (map code 1) 1,250 ft NW, Colonial Auto Repair (map code 2), 1,140 ft NW, MHI Construction (map code 3) 900 ft SSW, Mobile (map code 4) 600 ft SE and Island Lake Cleaners (map code 5) 900 ft SE.

Island Lake Well #2 (IEPA #20281)

The survey area is urban. The area is a mixture of residential and commercial. There were no potential sources of contamination observed within 1,500 feet of Well #2.

Island Lake Well #3 (IEPA #20282)

The survey area is urban. The area is a mixture of residential and commercial. There were no potential sources of contamination observed within 1,500 feet of Well #3.

Island Lake Well #4 (IEPA #00544)

The survey area is urban. The area is a mixture of residential and commercial. There are five possible problem sites within 1,500 feet of Well #4. They are Sharp Auto Body (map code 1) 820 ft NW, Colonial Auto Repair (map code 2) 580 ft NW, MHI Construction (map code 3) 600 ft S, Mobil (map code 4(950 ft SE and Island Lake Cleaners (map code 5) 1,100 ft SE.

SUMMARY

The well site survey conducted indicates that there are potential sources/sites that could pose a hazard to groundwater utilized by the Island Lake Water Co. public water wells.

The Illinois Environmental Protection Act provides minimum protection zones for your wells. These minimum protection zones are regulated by the IEPA. The Act also authorizes county and municipal officials the opportunity to provide maximum protection zones up to 1,000 feet. The responsibility for the controls would then be assumed by local officials through adoption of a maximum setback zone ordinance.

RECOMMENDATIONS

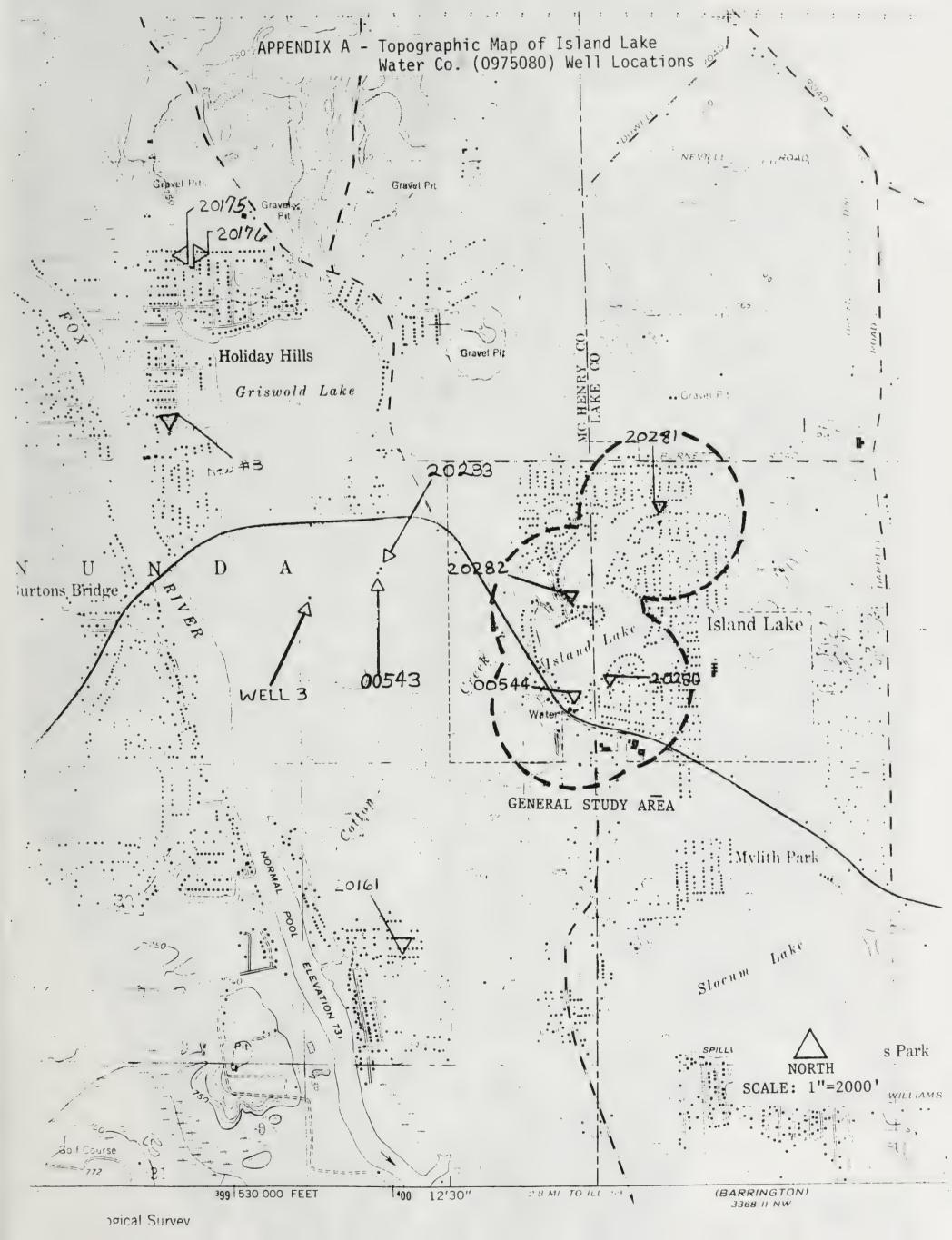
The Agency strongly urges Island Lake Water Co. to consider establishing maximum setback zones for its wells. The Agency has prepared a "Maximum Setback Zone Workbook" which provides detailed case studies of how to establish a maximum setback zone. Technical assistance is available from the Agency and the Illinois State Water Survey.

In addition, the Agency recommends that the Water Co. consider proper abandonment of Well #4, if it is of no further use. Inactive wells which are improperly abandoned may be considered potential routes for contamination under the Illinois Groundwater Protection Act.

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APPENDIX: B1 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island Lake Well #1 (IEPA #20280)

SURVEYOR: Martinez
SURVEY DATE: 10/30/89

ADDRESS:

Island Lake Water Co. 120 S. LaSalle Street Chicago, IL 60603

AGENCY WELL NO: 20280
WELL NAME & DESC.: Well 1

TREATMENT APPLICATION POINT: 01

FACILITY NO. & NAME: 0975080-Island Lake Water Co.

FAC. PHONE NUMBER: 312/526-7204

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

44N, 9E, 21, 8B

DISTANCE FROM CORNER: 1130N, 190E QUAD SHEET CODE & NAME: 8C-Wauconda

MIN. SETBACK: 400 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability

sand and gravel sediments

AGE OF WELL (DATE WELL CONSTRUCTION): 1940

WELL DEPTH: 116 ft. CASEMENT DEPTH: 92 ft.

AQUIFER CODE: 0101-sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): no

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The area is a mixture of residential and commercial.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603.

312/526-7204, Manager.

Classification (CLASSF*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY

PS = POTENTIAL SECONDARY

RI = POTENTIAL ROUTE

CC = CERTIFIED XI = UNKNOWN

CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

OR = POTENTIAL ROUTE

CC = CERTIFIED

OX = UNKNOWN

CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20280-01

NAME & ADDRESS OF UNIT OWNER: Sharp Auto Body, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1250 ft NW

WELL NO. - MAP CODE - CLASSF*: 20280-02

NAME & ADDRESS OF UNIT OWNER: Colonial Auto Repair, Rt. 176, Island Lake, IL

60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1140 ft NW

WELL NO. - MAP CODE - CLASSF*: 20280-03-0X

NAME & ADDRESS OF UNIT OWNER: MHI Construction, Roberts Rd, Island Lake, IL

50042

DESCRIPTION AND COMMENTS: construction company

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 900 ft SSW

WELL NO. - MAP CODE - CLASSF*: 20280-04-05

NAME & ADDRESS OF UNIT OWNER: Mobil Oil Co., Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage in

excess of 500 gallons PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 600 ft SE

WELL NO. - MAP CODE - CLASSF*: 20280-05-0X

NAME & ADDRESS OF UNIT OWNER: Island Lake Cleaners, Rt. 176, Island Lake, IL

60042

DESCRIPTION AND COMMENTS: dry cleaning

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 900 ft SE

A drillers log of Well No. 1 follows:

	Thickness	•_
Strata	(ft)	(ft)
Yellow stoney gravel	40	40
Dirty gravel and sand	51	91
Gravel and sand	25	116



APPENDIX: B2 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island Lake Well #2 (IEPA #20281)

SURVEYOR: Martinez
SURVEY DATE: 10/30/89

ADDRESS:

Island Lake Water Co. 120 S. LaSalle Street Chicago, IL 60603

AGENCY WELL NO: 20281
WELL NAME & DESC.: Well 2

TREATMENT APPLICATION POINT: 01

FACILITY NO. & NAME: 0975080-Island Lake Water Co.

FAC. PHONE NUMBER: 312/526-7204

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

44N, 9E, 21, 7F

DISTANCE FROM CORNER: 1385S, 1255E QUAD SHEET CODE & NAME: 8C-Wauconda

MIN. SETBACK: 400 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability

sand and gravel sediments

AGE OF WELL (DATE WELL CONSTRUCTION): 1945

WELL DEPTH: 95 ft. CASEMENT DEPTH: 84 ft.

AQUIFER CODE: 0101-sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): no

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The area is a mixture of residential and commercial.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603. 312/526-7204, Manager.

Classification (CLASSF*) KEY

MIN. ZONE

PP = POTENTIAL PRIMARY
PS = POTENTIAL SECONDARY

RI = POTENTIAL ROUTE

CC = CERTIFIED XI = UNKNOWN

CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

OR = POTENTIAL ROUTE

CC = CERTIFIED

OX = UNKNOWN

CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20281

NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS: no visible sources of contamination

PRE OR POST (Y,N):

DISTANCE AND DIRECTION:

A drillers log of Well No. 2 follows:

Strata		Thickness (ft)	Depth (ft)
Gravel		36	36
Sand		48	84
Gravel	, ! !	11	95



APPENDIX: B3 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island Lake Well #3 (IEPA #20282)

SURVEYOR: Martinez
SURVEY DATE: 10/30/89

ADDRESS:

Island Lake Water Co. 120 S. LaSalle Street Chicago, IL 60603

AGENCY WELL NO: 20282

WELL NAME & DESC.: Well 3

TREATMENT APPLICATION POINT: 01

FACILITY NO. & NAME: 0975080-Island Lake Water Co.

FAC. PHONE NUMBER: 312/526-7204

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

44N, 9E, 20, 1D

DISTANCE FROM CORNER: 2600N, 450W QUAD SHEET CODE & NAME: 8C-Wauconda

MIN. SETBACK: 400 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability

sand and gravel sediments

AGE OF WELL (DATE WELL CONSTRUCTION): 1940

WELL DEPTH: 122 ft. CASEMENT DEPTH: 112 ft.

AQUIFER CODE: 0101-sand and gravel aquifer

MULTIPLE AQUIFER (Y, N): no

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The

area is a mixture of residential and commercial.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603.

312/526-7204, Manager.

Classification (CLASSF*) KEY

MIN. ZONE
PP = POTENTIAL PRIMARY

PS = POTENTIAL SECONDARY

RI = POTENTIAL ROUTE

CC = CERTIFIED

XI = UNKNOWN

CU = CLEANUP

OUTSIDE MIN. ZONE

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

OR = POTENTIAL ROUTE

CC = CERTIFIED

OX = UNKNOWN

CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 20282

NAME & ADDRESS OF UNIT OWNER:

DESCRIPTION AND COMMENTS: no visible sources of contamination

PRE OR POST (Y,N):

DISTANCE AND DIRECTION:

A correlated drillers log of Well No. 3 furnished by the State Geological Survey follows:

	Thickness	Depth
Strata	(ft)	(ft)
PLEISTOCENE SYSTEM		
Yellow stony gravel	20	20
Stony gravel and sand	67	87
Stone, gravel, and sand	68	155
Red clay	15	170
SILURIAN SYSTEM		
Niagaran Series		
Rock	20	190



APPENDIX: B4 WELL SITE SURVEY SUMMARY DESCRIPTION AND GEOLOGIC PROFILE Island Lake Well #4 (IEPA #00544)

SURVEYOR: Martinez
SURVEY DATE: 10/30/89

ADDRESS:

Island Lake Water Co. 120 S. LaSalle Street Chicago, IL 60603

AGENCY WELL NO: 00544

WELL NAME & DESC.: Well 4

TREATMENT APPLICATION POINT: 01

FACILITY NO. & NAME: 0975080-Island Lake Water Co.

FAC. PHONE NUMBER: 312/526-7204

LOCATION:

TWP, RNG, SECTION, 10 ACRE PLOT:

44N, 9E, 20, 1B

DISTANCE FROM CORNER: 900N, 450W QUAD SHEET CODE & NAME: 8C-Wauconda

MIN. SETBACK: 400 ft.

MAX. SETBACK:

SURFICIAL GEOLOGIC SUSCEPTIBILITY RATING: A2-moderate to high permeability

sand and gravel sediments

AGE OF WELL (DATE WELL CONSTRUCTION): 1957

WELL DEPTH: 1233 ft.
CASEMENT DEPTH: unknown

AQUIFER CODE: 5687-deep bedrock aquifer

MULTIPLE AQUIFER (Y, N): yes

SUMMARY DESCRIPTION OF 1,000' RADIUS AREA: The survey area is urban. The

area is a mixture of residential and commercial.

INTERVIEW(S) NAME-ADDRESS-AFFILIATION-TELEPHONE NO.:

John Dunn-Island Lake Water Co., 120 S. LaSalle Street, Chicago, IL 60603.

312/526-7204, Manager.

APPENDIX: B4 INVENTORY AND SYNOPSIS OF UNITS Island Lake Well #4 (IEPA #00544)

Classification (CLASSF*) KEY

MIN. ZONE OUTSIDE MIN. ZONE

PP = POTENTIAL PRIMARY

PS = POTENTIAL SECONDARY

OP = POTENTIAL PRIMARY

OS = POTENTIAL SECONDARY

RI = POTENTIAL ROUTE OR = POTENTIAL ROUTE

CC = CERTIFIED

XI = UNKNOWN

CU = CLEANUP

CC = CERTIFIED

OX = UNKNOWN

CU = CLEANUP

WELL NO. - MAP CODE - CLASSF*: 00544-01-0X

NAME & ADDRESS OF UNIT OWNER: Sharp Auto Body, Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 820 ft NW

WELL NO. - MAP CODE - CLASSF*: 00544-02-0X

NAME & ADDRESS OF UNIT OWNER: Colonial Auto Repair, Rt. 176, Island Lake, IL

60042

DESCRIPTION AND COMMENTS: auto repair shop

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 580 ft NW

WELL NO. - MAP CODE - CLASSF*: 00544-03-0X

NAME & ADDRESS OF UNIT OWNER: MHI Construction, Roberts Rd, Island Lake, IL

60042

DESCRIPTION AND COMMENTS: construction company

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 600 ft S

WELL NO. - MAP CODE - CLASSF*: 00544-04-0S

NAME & ADDRESS OF UNIT OWNER: Mobil Oil Co., Rt. 176, Island Lake, IL 60042

DESCRIPTION AND COMMENTS: service station w/below ground fuel storage in

excess of 500 gallons PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 950 ft SE

WELL NO. - MAP CODE - CLASSF*: 00544-05

NAME & ADDRESS OF UNIT OWNER: Island Lake Cleaners, Rt. 176, Island Lake, IL

60042

DESCRIPTION AND COMMENTS: dry cleaning

PRE OR POST (Y,N): Y

DISTANCE AND DIRECTION: 1100 ft SE

WB:mab/0602M/sp/1-13

A correlated drillers log of Well No. 4 furnished by the State Geological Survey follows:

	Thickness	Depth
Strata	(ft)	(ft)
QUATERNARY SYSTEM		
Pleistocene Series		
"Glacial drift"	175	175
SILURIAN SYSTEM		
"Niagaran-Alexandrian"	185	360
ORDOVICIAN SYSTEM		
Maquoketa Group		
"Maquoketa"	105	465
Galena-Platteville Group		
"Platteville"	275	740
Glenwood-St. Peter Sandstone		
"Glenwood shale" (includes some of		
St. Peter Sandstone)	160	900
"St. Peter Sandstone"	100	1000
CAMBRIAN SYSTEM		
Franconia Formation		
"Franconian"	55	1055
Ironton-Galesville Sandstone		
"Galesville sandstone"	178	1233







ILLINDIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES FACILITY WELLS REPORT

PAGE: 06/26/91

OFFICIAL CUSTODIAN ----DANER MICHAEL D VICK 120 S LASALLE CHICAGO

ISLAND LAKE WTR CHPNY

0975080

FACILITY:

PUGUPO 53

REPORT:

PLOT: 7F PLOT: 10 PLOT: PLOT: MINIMUM SETBACKCFT): 0400 ------ MINIMUM SETBACK(FT): 400# ------ MINIMUM SETBACK(FT): 0400 ------ MINIMUM SETBACK(FT): 0400 THP: 44N RNG: 09E SEC: 21 SEC: 21 THP: 44N RNG: 09E SEC: 20 116 DEPTH(FT): 122 DEPTH(FT): DEPTH(FT): THP: 44N RNG: 09E THP: PLEISTOCENE SERIES STATUS: INACTIVE& - LAND SPREADING: SUSCEPTIBILITY - LAND SPREADING: SUSCEPTIBILITY - LAND SPREADING: SUSCEPTIBILITY - LAND SPREADING: JANET COURT STATUS: ACTIVE LONGITUDE: WORR 11 55.0 LONGITUDE: WOSB 11 40.0 LONGITUDE: WORR 11 58.0 LONGITUDE: W088 12 00.0 SUSCEPTIBILITY JANET COURT N OF RTE 176 BY JANET CT 9F A2 A2 A 2 A2 20280 WELL I ON MIDHAY OR END LATITUDE: N42 16 26.0 SUSCEPTIBILITY - LAND BURIAL: AQUIFERS: PLEISTOCENE SERIES SUSCEPTIBILITY - LAND BURIAL: SUSCEPTIBILITY - LAND BURIAL: AQUIFERS: PLEISTOCENE SERIES SUSCEPTIBILITY - LAND BURIAL: 20281 W2 EASTWAY & FOREST OR LATITUDE: N42 16 48.0 WELL: 20282 WELL 3 DOROTHY COURT LATITUDE: N42 16 40.0 AQUIFERS: QUATERNARY SYSTEM 16 21.0 90544 WELL 4 LATITUDE: N42 HELL: HELL: HELL:

LAND BURIAL: AZ = THICK, PERMEABLE SAND AND GRAVEL WITHIN 20 FT OF LAND SURFACE. SUSCEPTIBILITY CODES

ABANDONED ARE CONSIDERED POTENTIAL ROUTES ACCORDING TO P.A. 85-0863. *NOTE: INACTIVE WELLS SHOULD EITHER BE RETROFITTED FOR USE



APPENDIX D



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PWGWP048

REPORTS

16/92/90

TRIGGER RECEIVED BY:
LAB SUPERVISOR:
FUND CODE: PAGE: DATE: ----STANDARDS----RAW WTR 9 TYPE WATER: 06/03/85 COLL DATE: 06/03/85 LAB RCVD: 07/25/85 LAB COMPL: SMPL PERIOD: 06/85 10.000 4.000 1000-000 50-000 DRINK HTR 10.000 50-000 5000-000 50.000 2000-000 10-000 2.000 COMM: Y 7.600 0.010 303-000 RESULT 50.000 500-000 PUBLIC: Y UNITS 6 SILICA, TOTAL MG/L AS SIO2
2 ARSENIC, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP
2 BERYLLIUM, TOTAL RECOVERABLE UG/L AS BA ANAL BY ICP
2 BORON, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP
3 CODALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP
4 CHROMIUM, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP
5 CODALT, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP
6 CHROMIUM, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICP
7 CODALT, TOTAL RECOVERABLE UG/L AS PB
8 IRON, TOTAL RECOVERABLE UG/L AS PB
8 ICP
7 SILVER, TOTAL RECOVERABLE UG/L AS ANAL BY ICP
8 STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP
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8 STRONTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP -SELECTED SAMPLE EARANDED STATUS: STATUS: CALCIUM, TOTAL NG/L AS CN
HARDNESS, EDTA NG/L AS CACO3
CALCIUM, TOTAL RECOVERABLE NG/L AS CA ANA
SODIUM, TOTAL RECOVERABLE NG/L AS CA A
SODIUM, TOTAL RECOVERABLE NG/L AS NA ANA
POTASSIUM, TOTAL RECOVERABLE NG/L AS K AN
CHLORIOE, TOTAL NG/L AS CL
SULFATE, TOTAL NG/L AS SO4
FLUORIOE, TOTAL NG/L AS F ELENIUM, TOTAL RECOVERABLE UG/L ASSE ELENIUM, TOTAL RECOVERABLE UG/L ASSE ESIDUE, TOTAL FILTERABLE 3180 C, MG/L CONDUCTIVITY(EC)-LABCUNHOS/CH a 25 0975080 ISLAND LAKE WTR CAPNY 01 WELL 1 CL F PO4ADDED DISC TO APRGS TANK 20280 WELL 1 ON MIDWAY OR END OF JANET COURT ITRATE & MITRITE TOTAL HGZL AS SHPL TYPE: RAW COLLECTOR: D DITTBRENNER SHPL PURP: 1-GUH INDRG DBSRVATHS: MERCURY, TOTAL UG/L AS HG LOCATION: WELL 01 DESCRIPTION -----STORET----01045 00403 00630 00927 00929 00937 00940 01012 01022 01027 01034 01087 15600 95600 01002 01105 0000 01067 01077 10304 91600 01147 01082 71900 0300 SAMPLE NO: 8543380 RSLT 2 MODULE: PHGWM0 26 ANALYSIS SRCE FACILITY: RAH

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ILLINDIS ENVIRONI DIVISION OF PO SELECTED SAMI	ISC TO APRES TANK	A SMPL COLLECTOR		TOTAL TOTA MG/L	BLE MG/L AS C. Rable mg/l as Le mg/l as na	ECOVERABLE MG/L A /L AS CL L AS SO4	AS SIDE NG/L AS A	VERABLE UG/L AS BA	BLE UG/L AS B A RABLE UG/L AS C ERABLE UG/L ASC	VERABLE UG/L AS CO	RABLE UG/L AS PB	VERABLE UG/L AS A	ECOVERABLE UG/L ASY COVERABLE UG/L ASY RABLE UG/L AS_ZN_A	COVERABLE UG/L ASSI	TERABLE 3180	GALZMIN POTENTIAL (EH) CUMHOSZCM 3 25	MG/L AS CACO3 IME PRIOR TO SAMPLING
	D LAKE WTR CMPNY 2 CL F POGADDED DE STWAY & FOREST OR	COLLECTON: WELL COLLECTOR: IEP HR COMMENTS:	-STORET	ITRAGEN, AMMONIA ITRATE & NITRIT HOSPHORUS, TOTA	AALCIUM, TOTAL REAGNESIUM, TOTAL RECODIUM, TOTAL REC	OTASSIUM, TOTAL HLORIDE, TOTAL M ULFATE, TOTAL MG	LUORIDE, TOTAL M ILICA, TOTAL MG/	ARIUH, TOTAL RECERTLIUH, TOTAL	ORON-TOTAL RECO ADMIUM, TOTAL RE MROMIUM, TOTAL R	OPPER, TOTAL REC	EAD TOTAL RECOV	ICKEL, TOTAL "REC	TRONTIUM, TOTAL ANADIUM, TOTAL R INC, TOTAL RECOV	ELENIUM, TOTAL R	ESIDUE, TOTAL FI	W CPUMPING) R DATION-REDUCT DUCTIVITY(EC)	H PH UNITS LKALINITY, TOTAL LOW (PUMPING) T
	O ISLAN Z WELL 1 W2 EA	WW SPEC/OT	O.X	063	2000	0 9 9 9 9 9 9 9	0.00	1001	102	103	104	106	108 108 109	110	030		040
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TRIGGER LEVEL DELIVERED BY: LAB SUPERVISOR: RECEIVED BY: FUND CODE: LAB SUPERVISOR: RECEIVED BY: FUND CODE: DELIVERED BY -----STANDARDS-----RAW WTR COLL DATE: 02/21/83 LAB RCVD: 04/07/83 LAB RCVD: 00/00/00 LAP CGMPL: 00/00/00 COLL DATE: 07/16/86 1000-0001 5000-000 SMPL PERIOD: 02/83 DRINK WTR 10.000 20.000 2000-0005 20.000 50.000 SHPL PERIOD: 07/86 20-000 2.000 1000-0001 150-000 1.000 < 0.050 < 7.800 314.000 RESULT 12.000 720-000 41.000 0.410 1.000 1600-000 437-000 430-000 375-000 53-500 0-490 494-00 UNITS **特** *** CONTINUED SILICA, TOTAL MG/L AS S102
ARSENIC, TOTAL RECOVERABLE UG/L AS AS
BARIUM, TOTAL RECOVERABLE UG/L AS BE ANAL BY ICP
BERYLLIUM, TOTAL RECOVERABLE UG/L AS B ANAL BY ICP
CADHIUM, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICB
CHROMIUM, TOTAL RECOVERABLE UG/L AS CO ANAL BY ICB IRON, TOTAL RECOVERABLE, UG/L AS FEANAL BY ICP LEAD, TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP MANGANESE, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP NICKEL, TOTAL RECOVERABLE UG/L AS NI ANAL BY ICP SILVER, TOTAL RECOVERABLE UG/L AS AG ANAL BY ICP MAGNESIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP STRONTIUM. TOTAL RECOVERABLE UGZL AS SR ANAL BY ICP SODIUM, TOTAL RECOVERABLE MG/L AS NA ANAL BY ICP POTASSIUM, TOTAL RECOVERABLE MG/L AS K ANAL BY ICP CYANIDE TOTAL MG/L AS CH HARDNESS, EDTA MG/L AS CACO3 CALCIUM, TOTAL RECOVERABLE MG/L AS CA ANAL BY ICP COBALT, TOTAL RECOVERABLE UG/L AS CO AWAL BY ICP VANADIUM, TOTAL RECOVERABLE UG/L ASV ANAL BY ICP ZINC, TOTAL RECOVERABLE UG/L AS ZN ANAL BY ICP ELENIUM, TOTAL RECOVERABLE UG/L ASSE RESIDUE, TOTAL FILTERABLE 3180 C, MG/L TOTAL DISSOLVED SOLIDS MG/L BY EC COLLECTOR: IEPA SMPL COLLECTOR NITRATE & NITRITE TOTAL MG/L AS CONDUCTIVITY(EC)-LABCUMHOS/CM a ALKALINITY, TOTAL MG/L AS CACOS SULFATE, TOTAL MG/L AS SO4 CHLORIDE, TOTAL MG/L AS CL FLUORIDE, TOTAL MG/L AS F MERCURY, TOTAL UG/L AS HG COLLECTOR: J DUNN PH LABORATORY UNITS LOCATION: WELL HTR CAPNY -----STORET-----DESCRIPTION SAPL PURP: 1-ROUTINE CONNENTS: SAPL PROG: I-GAM INDRG DBSRVATNS: COMMENTS: **OBSRVATNS**: FACILITY: 0975080 ISLAND LAKE 5-SPEC/JIHR 01001 01001 01001 01022 00927 00940 01034 96000 00410 00630 01087 041 90410 E0+00 95600 01037 01042 01045 01055 01067 01077 01082 01092 10300 70304 11900 01051 01147 2 SAMPLE NO: B026166 SAMPLE NO: Z004507 SMPL PROG: V-VOC HPL TYPE: RAW RSLT ON PURP: 1000000 AMALYSIS SMPL

ILLINDIS ENVIRONMENTAL PROTFCTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECTED SÄMPLE EXPANDED REPORT

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FACILITY: 0975080 ISLAND LAKE WIR CMPNY

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RAN WTR LEVEL			1	DS TRIGGER RAW WTR LEVEL	
DRINK WIR	5.000 5.000 5.000 5.000 5.000	TYPE WATE	DATE: 07/16/86 RCVD: 00/00/00 DMPL: 00/00/00 RIDD: 07/86	DRINK WTR	1.000
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ID NO DESCRIPTION	0000001 001 32101 DECHEDIAL CONTROL OF CONTR	FACILITY: 0975080 ISLAND LAKE WTR CHPNY TAP: 03 WELL 3 CL F PO4ADDED DISC TO A PRESS THE STATUS: A STATUS: A STATUS: A	SAMPLE NO: Z004479 LOCATION: WELL SMPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR SMPL PURP: 5-SPEC/OTHR COMMENTS: SMPL PROG: 8-GMM PEST OBSRVATNS:	ANALYSIS RSLTSTORETION NO DESCRIPTION	0000001 001 39023 PHDRATE UG/L 0000001 002 39300 P.PDDT UG/L 0000001 003 39305 D.PDDT UG/L 0000001 005 39315 D.PDDD UG/L 0000001 005 39315 D.PDDE UG/L 0000001 007 39327 D.PDDE UG/L 0000001 008 39330 ALDRIN UG/L 0000001 009 39340 LINDANE UG/L

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FACILITY: 0975080 ISLAND LAKE

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		COLL DATE: 10/01/85 LAB CCHPL: 00/00/00 LA SAPL PERIDD: 10/85 0.310 0.310 0.010 < 10.000 82.000 53.000 15.000 2.100 40.000 29.000 0.870 4.000 29.000 1.000 < 1000.000
0000001 010 39356 METOLACHLOR COU 0000001 011 39380 DIELDRIN UG/L 0000001 013 39398 ETHION UG/L 0000001 014 39400 TOXAPHENE UG/L 0000001 015 39410 HEPTACHLOR UG/L 0000001 016 39420 HEPTACHLOR UG/L	39580 MALATHON UG/L 39530 MALATHON UG/L 39530 MALATHON UG/L 39530 ATRAINON UG/L 39630 ATRAINE PARATHI 39600 METHYL PARATHI 4 39760 SILVEX UG/L 77825 ALACHLOR UG/L 77825 ALACHLOR UG/L 81294 DYFONATE UG/L 81403 DURSBAN UG/L 982088 TERBUFOS CCOUN 1 00010 WATER TEMPERAT 2 00059 GXIDATION-REDU 4 00095 CONDUCTIVITYCE 5 72004 FLOW CPUMPING)	SAMPLE NO: 2004478 LOCATION: MELL SMPL TYPE: RAW COLLECTOR: MEPA SMPL COLLECTOR SMPL TYPE: RAW COLLECTOR: MEPA SMPL COLLECTOR SMPL TYPE: RAW SMPL TYPE: RAW COLLECTOR: MEPA SMPL COLLECTOR SMPL TYPE: SAMPL TYPE CONTROL 0000001 001 006 00 58 PHOSPHORUS: TOTAL MG/L AS N 0000001 002 00659 PHOSPHORUS: TOTAL MG/L AS N 0000001 003 00665 PHOSPHORUS: TOTAL MG/L AS N 0000001 006 00 927 MAGNESIUM: TOTAL RECOVERABLE MG/L AS NAMAL BY ICP 0000001 007 00 929 SODIUM: TOTAL RECOVERABLE MG/L AS NAMAL BY ICP 0000001 008 00 937 PHOTASSIUM: TOTAL RECOVERABLE MG/L AS NAMAL BY ICP 0000001 010 00945 SULFATE: TOTAL MG/L AS SOT 0000001 010 00945 SULFATE: TOTAL MG/L AS SOT 0000001 011 00951 FLUORIDE: TOTAL MG/L AS SOT 0000001 012 00956 SILICA: TOTAL MG/L AS SOT 0000001 013 01007 RASPIC: TOTAL MG/L AS SOT 0000001 014 00945 SILICA: TOTAL MG/L AS SOT 0000001 015 00945 SILICA: TOTAL MG/L AS SOT

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ILLINDIS ENVIRONMENTAL PROTECTION AGENCY DIVISION OF PUBLIC WATER SUPPLIES SELECTED SAMPLE EXPANDED REPORT

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01037 COBALT TOTAL RECOVERABLE UGL, AS FEMAL BY ICP 1000 001045 IRON-1071AL RECOVERABLE UGL, AS FEMAL BY ICP 5-000 001045 IRON-1071AL RECOVERABLE UGL, AS FEMAL BY ICP 5-000 001055 MANGANESE TOTAL RECOVERABLE UGL, AS MANAL BY ICP 5-000 001057 MAICHAINE SET TOTAL RECOVERABLE UGL, AS SA ANAL BY ICP 5-000 001067 MICRELTOTAL RECOVERABLE UGL, AS SA ANAL BY ICP 5-000 001067 MICRELTOTAL RECOVERABLE UGL, AS SA ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE UGL, AS SA ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE UGL, AS SA ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE UGL, AS SA ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE UGL, AS SE ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE UGL, AS SE ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE UGL, AS SE ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE UGL, AS SE ANAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE BAS CAPAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE BAS CAPAL BY ICP 5-000 001067 MAICHAIN TOTAL RECOVERABLE BAS CAPAL BY ICP 5-000 001067 MAICHAIN TOTAL BY ICP 6-000 001067 MAICHAIN TOTAL BY ICP 6-	5000-000 1000-000 150-000 150-000 50-000 10-000 2-000 DATE: 10/01/8	DELIVERED RECEIVED LAB SUPERVIS FUND CO
010452 ISON, DOTAL RECOVERABLE UG/L AS PENAL BY ICP 01055 LEAD, TOTAL RECOVERABLE UG/L AS HA ANAL BY ICP 01055 NAME AND A RECOVERABLE UG/L AS HA ANAL BY ICP 01057 NAME AND A RECOVERABLE UG/L AS HA ANAL BY ICP 01057 NAME AND A RECOVERABLE UG/L AS ANAL BY ICP 01057 NAME AND A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME AND A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME AND A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME AND A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME AND A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01058 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01059 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01059 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01050 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01050 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01050 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01050 NAME A RECOVERABLE UG/L AS SA ANAL BY ICP 01050 NAME A RECOVERABLE UG/L GC/MS 01050 NAME A REC	1000-000* 50-000 150-000 50-000 10-000 10-000 10-000 10-000 2-000 0MPL: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
01055	50.000 150.000 50.000 10.000 2.000 DATE: 10/01/8	DELIVERED RECEIVED LAB SUPERVIS FUND CO
01055 HANGANEEST TOTAL RECOVERABLE UG/L AS MN ANAL BY ICP 01055 HANGANEEST TOTAL RECOVERABLE UG/L AS AS ANAL BY ICP 01077 SILVER, TOTAL RECOVERABLE UG/L AS AS ANAL BY ICP 05000 01092 STRUNTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP 05000 01092 STRUNTIUM, TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP 01092 TANDIOLOGY TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP 01092 TANDIOLOGY TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP 01092 TANDIOLOGY TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP 01092 TANDIOLOGY TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP 01092 TANDIOLOGY TOTAL RECOVERABLE UG/L AS SR ANAL BY ICP 01092 TANDIOLOGY TOTAL FILTERABLE BUG/L AS SR COLLOGO TOTAL SELENDA-TOTAL FILTERABLE BUG/L AS HE COLLOGO TOTAL SELENDA-TOTAL FILTERABLE BUG/L BY ECC 00000 TOTAL DISSOLETO SOLIOS HG/L BY ECC 00000 TOTAL DISSOLETO SOLIOS HG/L BY ECC 00000 TANDIOLOGY TOTAL UG/L AS HG/L BY ECC 00000 TANDIOLOGY TOTAL UG/L AS HG/L BY ECC 00000 TANDIOLOGY T	150.000 50.000 10.000 10.000 2.000 DATE: 10/01/8	DELIVERED RECEIVED LAB SUPERVIS FUND CO
01067 NICKEL, TOTAL RECOVERABLE UG/L AS AL ANAL BY ICP 5.000 <	50.000 10.000 10.000 2.000 DATE: 10/01/8 RCVD: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
01002 STRONTUNHATOR RECOVERABLE UG/L AS AG ANAL BY ICP 01002 STRONTUNHATOR RECOVERABLE UG/L AS STANAL BY ICP 01002 ZINCETOTAL RECOVERABLE UG/L AS STANAL BY ICP 01002 ZINCETOTAL RECOVERABLE UG/L ASSE 01003 ZINCETOTAL RECOVERABLE UG/L ASSE 01004 ZINCETOTAL RECOVERABLE UG/L ASSE 01004 ZINCETOTAL RECOVERABLE UG/L ASSE 01004 ZINCETOTAL FILTERBALE BIO C, MG/L 01005 ZINCETOTAL FILTERBALE BIO C, MG/L 01005 ZINCETOTAL DISSULVED SOLIDS MG/L BY EC 01006 TOTAL DISSULPTION WG/L GG/MS 01006 TOTAL DISSULPTION WG/L G	5000.000 10.000 2.000 DATE: 10/01/8 RCVD: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
01082 STRONTIUM TOTAL RECOVERABLE UG/L AS Y ANAL BY ICP 52.000 01082 ZINC, TOTAL RECOVERABLE UG/L AS Y ANAL BY ICP 52.000 01092 ZINC, TOTAL RECOVERABLE UG/L AS Y ANAL BY ICP 52.000 01047 SELMINIM TOTAL RECOVERABLE UG/L AS Y ANAL BY ICP 52.000 01047 SELMINIM TOTAL RECOVERABLE UG/L AS Y ANAL BY ICP 52.000 01047 SELMINIM TOTAL PILTERABLE UG/L AS Y G/G/L AS Y G/G/G/L AS Y G/G/L AS Y G/G/G/G/L AS Y G/G/L AS Y	5000.000 10.000 2.000 DATE: 10/01/8 RCVD: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
01092 ZINC, TOTAL RECOVERABLE UG/L ASSE 23 ANAL BY ICP 1.000	\$000.000 10.000 2.000 DATE: 10/01/8 RCVD: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
100001 001 32101 BROWDICHLORDWETHANE UG/L GC/MS 100001 003 32105 CARBON TETRACHCOMS 100001 005 32105 CARBON TETRACHCOMS 100001 005 32105 CARBON TETRACHCORD UG/L GC/MS 100001 005 32105 CHLORDETHANE UG/L GC/MS 100001 005 32105 CARBON TETRACHCORD UG/L GC/MS 100001 005 32105 CARBON TETRACHCORD UG/L GC/MS 100001 005 32105 CARBON TETRACHCORD UG/L GC/MS 100001 005 32105 CARBON UG/L GC/MS 100001 005 32105 CHLORDETHANE UG/L GC/MS	10.000 2.000 BATE: 10/01/8 RCVD: 00/00/0 DMPL: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
TO 300 RESIDUE, TOTAL FILTERABLE 3180 C, MC/L 422.000 TO 304 TOTAL DISSOLVED SOLIDS MG/L 8Y EC 490.000 TO 304 TOTAL DISSOLVED SOLIDS MG/L 8Y EC COLL DA TO 304 TOTAL DISSOLVED SOLIDS MG/L 8Y EC COLL DA TO 304 TOTAL DISSOLVED SOLIDS MG/L 8Y EC COLL DA TO 305 TOTAL DISSOLVED SOLIDS MG/L AS HG COLLECTOR TO 306 TOTAL DISSOLVED MELL COLLECTOR TO 306 TOTAL DISSOLVED MELL COLLECTOR TO 306 TOTAL DISSOLVED METHANE UG/L GG/MS TOTAL SOLID METHANE UG/L GG/MS TO 306 TOTAL DISSOLVED MG/L GG/MS TOTAL SOLID METHANE UG/L GG/MS TO 306 TOTAL DISSOLVED MG/L GG/MS TOTAL SOLID MG/L GG/MS TO 306 TOTAL DISSOLVED MG/L GG/MS TOTAL MG/L GG/MS TO 306 TOTAL MG/L GG/MS TOTAL MG/L GG/MS TOTAL MG/L GG/MS TOTAL MG/L GG/MS TOTAL MG/L GG/MS TOTAL MG/L GG/M	2.000 DATE: 10/01/8 RCVD: 00/00/0 DMPL: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
AMPLE NO: 2004477 LOCATION: MELL MPL TYPE: RAW COLLECTOR: IEPA SMPL COLLECTOR LAB COM MMPL PROG: V-VOC DOSRAVATNS: ALYSIS RSLTSTORET ALYSIS RSLT	2.000 DATE: 10/01/8 RCVD: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
AND TE NO. 2004477 LOCATION: MELL LAS HG COLLECTOR LAS HG COLLECTOR LAS RC LAS RC LAS RC COLLECTOR: IEPA SMPL COLLECTOR LAS RC LAS COMMENTS: MPL PURP: 5-SPEC/OTHR COMMENTS: RESULT COMMENTS: MPL PROG: V-VOC 08SRVATNS: SMPL POLICE COMMENTS: SMP	DATE: 10/01/8 RCVD: 00/00/0 DMPL: 00/00/0	DELIVERED RECEIVED LAB SUPERVIS FUND CO
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